Vol.XII No.3 March 1983 Second class postage paid at Dallas, Texas Postal Identification
Publisher, Jim Cranshaw Monthly except July and August Statement, page 2
Price $8.50 yearly Single issue $1.00

THE HORN SPEAKER

The ITCH for Distance

By ARMSTRONG PERRY

Radio News for April, 1923

A LONG time ago it used to happen that some pupil at a district school would suddenly be seized by a strange ailment. First he showed a growing restlessness. He would squirm a good deal, pucker up his face into odd expressions and scratch various portions of his anatomy.

Then some other pupil would get to going. Then another and another. Eventually almost everybody in the school would be affected. In order to reach inaccessible spots in the middle of the back the victims would even take to stropping themselves on shagbark hickory trees the same as razor back hogs.

They called it "the itch." Sometimes it was temporary. Often it was reputed to be of the "seven-year" variety. With some it seemed to be chronic.

Modern medicine appears to have brought this disease under control, but a mental ailment has taken its place. It is the itch for distance. It attacks persons of all classes. A hitherto sane, conservative business man suddenly becomes restless. He begins to neglect the reading which he once enjoyed in the evening hours. He buys a radio set. He sits down before it with the phones clamped to his ears. He grabs the knobs and switches one after another, but never leaves one of them in adjustment for more than a few seconds.

One minute the gentle wife, whispering to grandmother that the baby shows symptoms of growing a tooth, is yelled at savagely to stop her infernal racket. The next moment, having settled silently into the depths of the beauty page she is yelled at to jump to hubby's side instanter—he's got Schenectady.

Just as in the old-time itch, this heretofore well-balanced man no sooner scratches one spot than another bites him. The instant he hears the announcer's: "This is WGY," he tries to tune him out and get KYW. He seems to have lost all interest in everything except unusual arrangements of the alphabet. He attempts to cover large pieces of paper with three- and four-letter combinations that spell nothing.

Once this man enjoyed music. Now he listens impatiently to a few bars and storms because the announcer takes so long in telling where he is. He neglects the home phonograph, for which he once purchased a record a week at least, but the scratchiest, blastedest note of canned music received by radio is greeted like a one hundred per cent stock dividend, if it comes from Kentucky, Louisiana or Colorado.

Sometimes such a man reports phenomenal success. A letter from one of them is capitalized in a radio ad with a black-type headline: "Heard 14 concerts in one evening."

Now I ask you, did any man ever hear fourteen concerts in one evening? When I compare notes with a musician after attending a Werrenrath recital or a Damrosch orchestral matinee I realize that I never really heard even one concert. I joyously listened and absorbed as much of the music as my mental equipment would permit, but there were a thousand examples of melody and harmony that never touched me.

Or, would any man start out in his evening clothes to attend fourteen concerts on the same date? Would he poke his head through the doors of fourteen auditoriums and then run around town the next day bragging that he had been present at that many entertainments? No, even if there were fourteen Winter Gardens in a row the tiredest business man who ever telephoned his wife that he was detained at the office wouldn't go farther than the first one where he could buy seats in the front row.

Then why the enthusiasm over hearing thirty seconds worth of music, messed up with weather reports, fashions, hog markets, stolen automobiles, plain and fancy scandal, code traffic and miscellaneous bedlam from each of a dozen stations at all points of the compass? Let pathological experts answer. It is beyond my ken, even when I do it myself.

It seems to me that the planting and nurturing of the itch for distance by radio manufacturers and dealers is the quickest, surest form of business suicide. There is to be sure a certain curiosity, inherent in most human beings, that leads us to travel, read and look at pictures to acquire information about doings in distant places. The possibility of listening-in directly on what is transpiring a thousand miles away whets that curiosity for a time. In the winter of 1921-22 we saw how far it could be developed by modern publicity methods. Then, along in the summer of 1922 when manufacturers and dealers got ready to deliver the stuff that customers were fighting for, six months earlier, we discovered how very easily the popular curiosity had been satisfied and had evaporated. The itch for distance has not entirely run its course. It may always be with us in some degree, but the epidemic is passing and it is an unsafe foundation upon which to build a business that should rival steel, cosmetics, photography, candy, booze and phonographs.

The technical amateur, who is the itchiest of all itchers, will always be a good customer unless he closes his eyes to the danger brought upon himself by disregarding the wishes of other citizens and is eliminated by legislation. He wants distance and has a reason for wanting it. He has seen his efforts bearing fruit in the increasing efficiency of radio communication and incidentally has been able to sell his technical ability in a very good market if he cared to use it in business as well as in the sport of radio. But 999 per cent of the population has too little interest, actual or potential, in technical radio to even inquire, when the amateur interferes, what it is trying to do. Nor can this condition ever be changed unless human nature changes.

Who cares today how a sewing machine is made? Who knows or cares how to figure the focal distances in a camera? What man hearing the clicks, as the railroad car passes a cross-over, stops to think that a different kind of steel has to be used at that point because the ordinary rail steel is not hard enough? What automobile owner ever gets under his car except when necessity compels him? We are not technically minded, most of us. We like to appear up to date and to know a little about everything that everybody is talking about, but when the newspapers of the country suddenly drop their technical radio departments and cut the radio news down to a mere running program of near-by broadcasts and a half dozen news items per day, it is safe to assume that the public curiosity is satisfied. Liberal advertising patronage by radio dealers may keep the editorial matter in the papers up to a column or two. Even chess problems find a place in some publications. But the itch for distance is running its course. The popular radio of the future will be that which gives folks what they want to hear, when they want to hear it, not from distances that make it impossible to guarantee continuously satisfactory results, but from stations near enough to be as unfailing as the letter-carrier.

Bicycling was once a craze as all-enveloping as radio was a year ago. As a sport, it was better physiologically because it provided exercise. It had social features that radio so far has failed to develop. It took its devotees out into the fresh air and into pleasant places. It had a broader basis, apparently, than popular radio. It waned before the automobile took the place of the smaller vehicle completely. I have heard of statistics purporting to prove that there are more bicycles sold today than there were during the craze. If there are, they must be going to foreign countries. There are millions of persons who cannot afford automobiles. They could get just as much fun out of a wheel today as they ever could and it would be just as useful. There seems to be no reason for the decadence of the bicycle except that the bicycle business was built on a fad basis. The itch for distance was inoculated into the public. People were taught, not to enjoy to the full the scenery near at hand, but to get as far away as possible. Naturally, when the automobile made it possible to go faster and farther and with less effort, the bicycle was junked. In this case many a bicycle manufacturing plant was quickly adapted to the manufacture of automobiles or parts. What are the radio plants going to do when the itch for distance is scratched to the point of satisfaction?

This *Sarcoptes scabiei* or itch-mite of radio causes some queer symptoms. Normally, a man takes pride in the local industries and public works of his home town. If he has a visitor he takes him out to show him the school house, the new river bridge, the municipal ice plant. But the New York or Philadelphia or Washington man who entertains a caller with a radio set seems bent on showing him that Davenport, Louisville and Atlanta are the only towns on the radio map. He sometimes acquires such a murderous hatred of the local broadcasters, the commercial traffic stations and the radio transmitters of his Government that he organizes to force them out of the air or into stray corners of it where they cannot be heard even by ships in distress that need their services.

At a meeting that I attended, all the stations in the city came up for action. The commercial broadcasters were all to be requested to eliminate mechanically-produced music during the evening because stations from five hundred to a thousand miles away were transmitting music direct from orchestras and singers. The Government official who gave the public health lectures was to be requested to shorten them, make them more to the point, read more clearly. The last part of the request amused me particularly because, from personal experience, from the beginning of the Public Health Broadcasts, I knew that, with simple apparatus that did not bring in interference from half the continent, every word he spoke could be easily understood in that city. It was asserted that a physician had said that the lecture on cancer had brought swarms of women to him to be examined and that it was all wrong to get folks excited about diseases that most of them did not have. The fact urged by an older man in the audience, that there had been a "cancer week" in town that week, with sermons in all the churches, lectures in all the clubs and stories in all the papers for the purpose of arousing the population to find out how many had the disease and what could be done to stamp it out, seemed to make little impression upon the leader of the meeting. His mind was all made up that the United States Public Health Service needed to be spanked and he intended to perform his duty.

The market reports were on the list for attention also. The leader wondered if anybody cared for them. He did not. One man in the audience, apparently having some knowledge of the produce business, ventured to state that such reports were eagerly sought by merchants as well as farmers. The leader consented to send a mere request that the Government conduct an exhaustive investigation to find out whether anyone in the vicinity of the station (which is sometimes heard as far away as Australia!) received the market reports. He felt very sure they should be eliminated. No doubt the Government was astonished at itself for never having thought of going into the matter until this was suggested by a little group of listeners-in! The hydrographic reports and code weather reports transmitted by the Navy were stated to be utterly useless. A request was to be made for their elimination. The one local broadcast that seemed to be acceptable to the leader was the weekly concert by the Navy orchestra. He liked that and was up in arms over a rumor that it was to be discontinued.

The enthusiasm of the leader, who wanted to straighten out a difficult local broadcasting situation, was most commendable. His eyes showed the strain of night work in the unselfish promotion of what he believed to be for the good of all local radio listeners. But it seemed perfectly obvious that to him, as to all afflicted by the itch for distance, the charm of what he heard lay not so much in what it was, as in how far it came.

IN this article, Mr. Armstrong Perry, much to our personal regret, has hit the nail upon the head. Every one of us, whether we are amateurs, fans, or novices, has been thoroughly inoculated with the "itch for distant stations." We all like to play "radio golf"; that is, score as many miles in radio distance as we possibly can each night. It is all so very dear to our hearts that it never occurs to us that there is anything wrong about it. But if we search our hearts, after reading Mr. Perry's article, we must admit that he is right.

The "itch for distance" is all nonsense, and we are simply buncoing ourselves unconsciously. Besides it is all wrong, because it serves no real purpose.

This very important article gives a lot of food for thought, and we hope that all of us will be frank enough to admit that we should rid ourselves of this "itch," pleasant though it is to most of us. —EDITOR.

REPRINTED FOR HISTORICAL INSIGHT

I listen to everyone I can bring in from Cuba to Canada and from ships in the Atlantic to amateurs on the opposite edge of North America. I often hear better operators doing their best with better apparatus than mine. It is as interesting to me as it is to them, for my itch seems to be chronic, though intermittent. But in fairness I must say that the most interesting things brought in from long distances are the call letters of the stations, and that I have seldom heard, or met a fellow itcher who has heard, a concert or a lecture all through with satisfactory quality and volume, if it was in progress five hundred miles away or more. No doubt it is done, but I seldom hear of a case that can be authenticated by a listener who really wanted to hear music or get information other than call letters.

When a man makes up his mind that he wants to hear a certain program from a distant station, tries for it, gets it and listens to it he has, of course, achieved something worth while. But usually, especially now that so many newspapers have stopped printing all but the local and near-by programs, the itch for distance is treated by aimless groping in the ether. Purposeful or otherwise, the attempt to bring in distant stations usually ends in bitter complaints against the local broadcaster who is spending his own money to serve the majority of listeners.

The local broadcast is taking on greater importance with the improvement in loud talkers. A year ago, the best I heard were harsh, tinny and disagreeable. Today anyone in our house can turn on a detector, plug in a power amplifier and loud talker and bring in a concert that fills the place with music that makes us forget all about radio. It would not be difficult to conceal the outfit and make an average crowd believe that the musicians were right in the house. But force the detector bulb and turn on the maximum amplification, and the entertainment is ruined for music lovers, not only because the music itself is distorted out of all semblance to what it was where it was produced, but also because the sensitive outfit picks up other things in such volume and variety as to rival the barkers at Coney Island.

Instead of the itch for distance I would try to develop, if I were in the business of

WINTER SEASON 1983 --- OLDE TYME RADIO COMPANY ---- 2445 Lyttonsville Road, Silver Spring, MD 20910. (301) 585-8776. -- After 7:00 p.m. local time. No. 183 - 1. HEADPHONES .GENERAL SERVICE --- $3.00 PAIR . VINTAGE pair $6.50. - 2. OLD STYLE REPLACEMENT SPEAKERS both ed and pm. Sizes vary from 2" ovals to 10" rounds. Send us your needs for quote. - 3. ELECTROLYTIC CAPACITORS . 60 UF at 250V 50 cents ea or 3 / $1.00 . Many types -send us your needs and we will send quote . 40 uf (small size axial leads) 220V $1.00 ea or 3 / $2.75 . Screw base (large) 40 x 40 uf at 450V $3.00 each . cap. bonanza 20pf to 0.1 uf 25 / $1.00 - 4. WIRE DEPT. . 6 COND. AK style battery cable $1.25 / ft. . 5 cond. AK style battery cable $1.00 ft. . Brown silk type power cord .30 / Ft. . #20 magnet wire double cotton wrap 80 ft. roll $3.50 . Single conductor green cloth covered wire- for olde tyme radio coils .20 / ft. . Single conductor black cloth covered olde tyme radio hookup wire 12 cents / ft. . Single conductor # 18 bare copper wire (stranded) .25 / ft. - 5 VOLUME CONTROLS 1/4" SHAFT 10 ohm to 1.0 meg. $1.25 ea or 3 / $3.00 - 6 Escutcheon screws- guage length respectively 0-1/4", 0-3/8", 1-1/4", 1-3/8", 2-1/4*", 2-3/8" 10 for 50 cents. BRASS, FLAT OR ROUND HEADS *round head only - - 7. Exact replacement Radiola II or VIII leather handle. only $4.50. - 8. OLDE TYME RADIO TUBES tubes from the 20's thru the 60's used / tested or new. Write for quote. - 9 COILS ANT, RF, OSC and IF manufactured by Meissner, Caron, Miller, etc. $3.50 ea. Special or multiple band coils higher- write. -10. Slip over coils for ant. and RF coils. Provide us with diameter of your defective coil form $1.50 each. - 11. USED POWER TRANSFORMERS Send us make and model of radio. Also need size of old transformer. We will quote. - 12. We cannot provide WD-11's but we can provide WD-11A's made with 864's in WD-11 bases. Work better than WD-11. $15.00 each or 2 for $25.00. - 13. DIAL LAMPS - any type. 25 cent each or 5 for $1.00. - 14. Crystal set items .galena xtals $1.50 each . xtal detector ass'y w/xtal $3.50 each . unmounted xtal detector ass'y without xtal $2.00 each. - 15. Headphone replacement cords (black) . Brandes and Baldwin types $4.35 each . Olde tyme speaker replacement (black $3.50 ea, bwn $4.00 ea) cords . pin jack 25 cents each or 5/$1.00 -16. Schematics for sets manufactured from 1920 thru 1946 $1.50 for complete data package $2.50. We also have schematics and data for some early TV sets. Complete data package $3.00 to $5.00, depending on number of pages. Write- we will quote. - 17. Olde tyme instrument knobs 25 cents each or 5/$1.00 - 18. Fahnestock clips 15 cents each or 8 for $1.00 - 19. Stancor output transformers primary imp. 2,000 ohms secondary imp. 3.2 ohms. Good for matching triode to speaker. $2.50 each. - 20. Olde tyme phone plug. Will accept headphone tip jacks.$1.85 each - 21. RESISTOR LINE CORD REPLACEMENT KIT . TYPE RLC-1 FOR 4 TUBE SETS WITH (2) 6.3V PLUS (2) 25V TUBES $3.50 EA . TYPE RLC-2 FOR 5 TUBE SETS WITH (3) 6.3V PLUS (2) 25V TUBES $4.50 - 22. Padder capacitors for BC superhets $1.25 each OR 2 for $1.75 - 23. Olde tyme spaghetti assorted sizes and colors. package .....$3.00 -24. Tie down terminals- 3 terminals 10 cents each or 15 for $1.00 - 25. OLDE TYME AC PLUGS. These hard to find old style AC plugs only $1.10 ea or 2 for $2.95 Get them while they last. - 26. Olde tyme toggle switch with short bat with ball $1.85 each. Good for AK-37, etc. Radiola 17, 18, etc. - 27. SPEAKER GRILL CLOTH, 2 PATTERNS.. $3.25 SQUARE FOOT. SEND FOR SAMPLE. - 28. WHITE TUBE CARTONS- type A size 2x2x6 20cents ea type B 1 1/2 x 1 1/2 x 5 18 cents ea type C 1 1/4 x 1 1/4 x 3 3/4 16 cents ea type D 1x1x3 15 cents ea-- Discounts given when ordering large quanities. - 29. AUDIO TRANSFORMERS We now have a sttock of Stancor A53C audios, but due to high procurement costs we are forced to set the price at $12.00 each. IF YOU DON'T SEE IT, ASK WE HAVE MUCH MORE, BUT CAN NOT LIST EVERYTHING IN THIS FLYER. OUR SHIPPING POLICY --------- We ask that you send sufficient funds to cover shipping and handling costs. Handling charge is levied to cover the cost of jiffy bag, boxes, gasoline (10 miles each way to UPS). Overages if under $1.00 will be credited to future orders or refunded if requested. Overages over $1.00 will be returned with your order when it is shipped. Unless specified otherwise, orders weighing 1 lb. and under will be mailed. Orders over 1 lb. will be shipped by UPS. When making inquiries, please send S.A.S.E. and give invoice numbers when possible. OLDE TYME RADIO GUARANTEE Anything we sell is unconditionally guaranteed. If not satisfied, just return it and your money will be returned to you at once. SERVICING RECEIVERS FOR OVER 30 YEARS PHONE (301) 585-8776 after 7:00 p.m. local time.

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manufacturing and selling radio outfits to common folks, a deeper appreciation of the opportunity to get good music and valuable information. The limitations of those who spend their leisure time in listening to jazz and reading scandal are obvious and the man whose ideals are so high that he cannot stoop to help them up one step at a time will promote the progress of humanity only like a lofty mountain that is looked up to from afar by we who labor in less interesting, but more productive earth.

Books have lasted. Some that were written centuries before the Christian era are still read with interest. King Tutenkhamen has popped out into the limelight after several thousand years of rest in Egypt and his art treasures interest more millions of persons today than they did hundreds in his own time, for he opens a long lost chapter in the story of the human race. The charm of music is fundamental and it grows stronger as its meaning is revealed to those who love it. Government has become a complex function and its recent failures, plunging millions to death and destruction, have awakened a desire on the part of the governed to know more and do more in working out their own salvation. The desire for knowledge, wisdom, self-expression, should be fanned into action. To promote radio only as a gigantic toy business under these conditions is to show a narrowness of vision, a penny-wise, pound-foolish policy unworthy of an enlightened age.

If we proclaim that the distance from which a reading, a song, a news item or the voice of a Government official is received is the main attraction, we act like babies who pound on a mirror with a hammer, not knowing the proper use for either. What difference does it make how we get ideas into our heads, just so we get them there? Radio needs to get into the foundations of life instead of performing difficult little stunts like an organ grinder's monkey. In every home and office the receivers ought to be busy all the time, telling in voices loud enough to be heard, but low enough not to interfere with the work in hand what is going on that might interest us. Subconsciously I hear my phones droning away and when they begin something that I want to listen to attentively I put them on as much as a matter of course as I answer my own bell when it rings among others that mean nothing to me.

Five thousand radio dealers, it is stated, are on the edge of bankruptcy. Yet fifty million Americans, I venture to assert, have never yet heard a radio concert or a radio lecture. Because the fad was so intense we imagine that it swept away everybody. To correct that impression, just ask a few persons how much they have really heard.

There are still very few places where a man who wants to select a radio set can have a satisfactory demonstration. The itch for distance prevents it. I asked a dealer why there was no place in his store where prospective customers could hear something by radio and he said it was because every demonstration killed a sale! And this was in a city where the broadcasters are organized and do not overlap or interfere. The prospective customers, being taught by the publicity that distance is the only thing worth trying for, want to buy only on that basis and no demonstration, satisfactory from that standpoint, is possible. It is time to turn the publicity into sensible channels, swing public opinion toward the proper use of radio, and sell radio sets to those Americans who have gray matter enough to realize that our marvelous new means of communication is intended primarily for the exchange of ideas. As a sport, fishing for call letters is not quite as useful as fishing for fish because you can't eat call letters.

A good deal of itch used to be cured by the liberal application of soap and water, which removed the itch bug. To cure the itch for distance we need to scrub away the false ideas that certain radio bugs have injected into the radio public.

Radio Pickups

{ Items of trade interest from here, there and everywhere, concentrated for the hurried reader. }

AMPERIAN AUTOMATIC PHONO-RADIO

The Amperian line, which the Capehart Corporation of Fort Wayne, Ind., has recently added to its Orchestrascope line, includes many models of automatic phonographs and phono-radio combinations for both home and commercial use. The phonograph is equipped with an automatic record changing mechanism which has an operating capacity for from 10 to 18 double-faced records.

Model 110, which is illustrated herewith, is designed for commercial use where both automatic phonograph and radio are desired. The top compartment contains a screen-grid radio set, the second compartment an automatic phonograph, and the lower compartment an electro-dynamic speaker. The lower center knob on the radio panel changes from radio to phonograph, both operating from one coin mechanism which allows for five minutes of music from any station selected or the playing of one phonograph record. Record magazines are placed on either side of the speaker compartment.

Model 110 Capehart Amperian

STEINITE REORGANIZED

Steinite Radio Co. has been reorganized with John C. Tully of Chicago as president, and Arthur T. Haugh of Rochester, N. Y., as vice-president. It is stated that quality radio sets are to be produced in the new factory at Fort Wayne, Ind.

MAGNAVOX EXPANDS

The Magnavox Company of Oakland, California, which was incorporated under the laws of Arizona in 1917, has been reincorporated under the laws of Delaware as the Magnavox Company, Ltd., preceding the establishment of an eastern factory, in addition to the present Chicago assembly plant. The new legal structure also permits possible merger, although the company denies the rumor of a contemplated merger with Grigsby-Grunow Company. A new patent has been secured to cover the use of loudspeakers in radio-phonograph combinations.

DE FOREST CUTS TUBE PRICES

Due to the use of new automatic high-speed production machines, De Forest Radio Company has made a radical downward revision of tube prices. The new prices are: $3.00 for the 424, $4.00 for the 420, $2.00 for the 427, $2.50 for the 445, $8.00 for the 410, $10.00 for the 450, $2.50 for the 480, and $6.50 for the 481.

COLONIAL AND VALLEY COMBINE

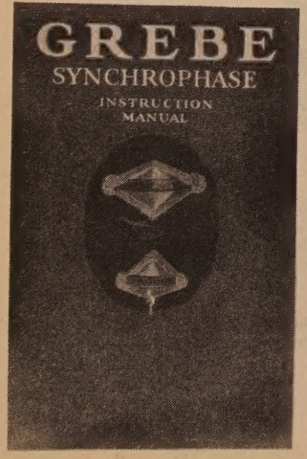
The interests of the Colonial Radio Corporation of Long Island City have been combined with those of Valley Appliances, Inc., of Rochester, N. Y. Each division will be operated as an independent unit, the Colonial making receivers and the Valley making speakers.

NEW RCA LICENSES

Cable Radio Tube Corporation and Perryman Electric Co. have been licensed for the production of radio tubes under RCA patents. The Radio Corporation of America has also granted tuned r-f and electric phonograph licenses to Transformer Corporation of America and to Story & Clark Radio Corporation, while canceling those of Walbert Radio Corporation.

RADIO FOR APRIL, 1930

AVAILABLE NOW



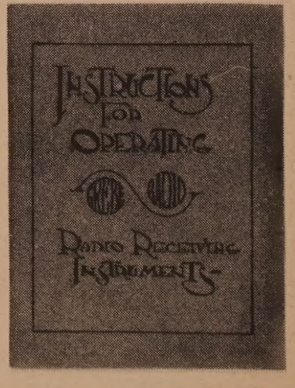
Radio Age is reprinting the Grebe Synchrophase Manual in original brown inks and on high quality paper (not a photocopy). This manual is loaded with history of the company and is documented with many photos, 71 pages. Definitely will enhance your collection. $11.25 ppd.

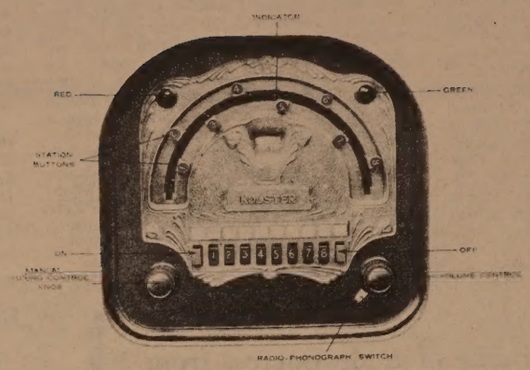
ALSO AVAILABLE

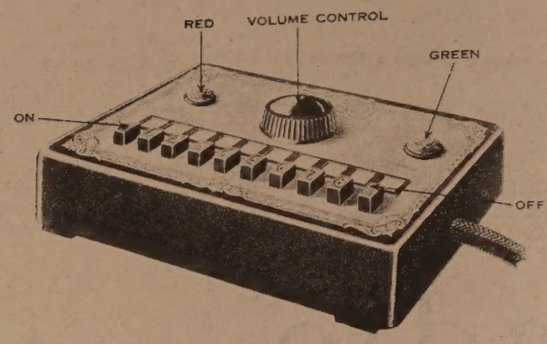
Grebe Instructions for operating with charts, graphs, block diagrams and schematics of CR-3, CR-5, CR-8, CR-9, RORK, RORD and RORN. Printed in beige cover with deep brown ink, 62 pages. Companion sales brochure showing inside and outside photos of all models above. On high quality gloss stock, 12 pages. $5.50 ppd. for both.

Gerald Tyne's Saga of the Vacuum Tube in hardcover, $11.20 ppd. and softcover, $8.20 ppd. (limited quantity available).

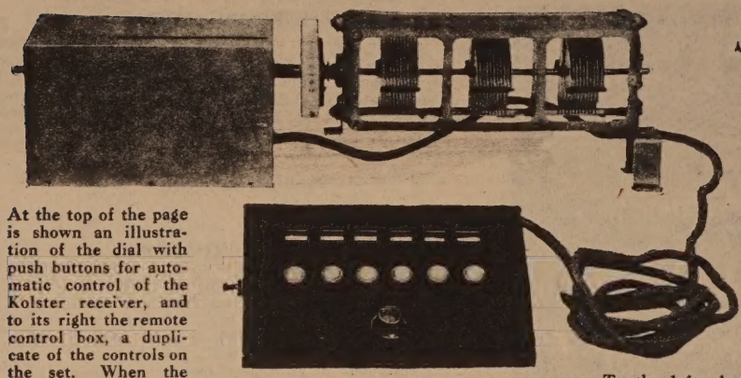
Make check payable to Radio Age, 636 Cambridge Road, Augusta, GA 30909.







Take Your Choice of Remote

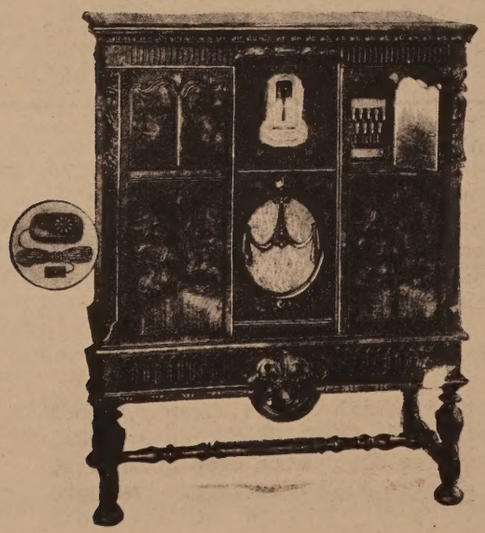


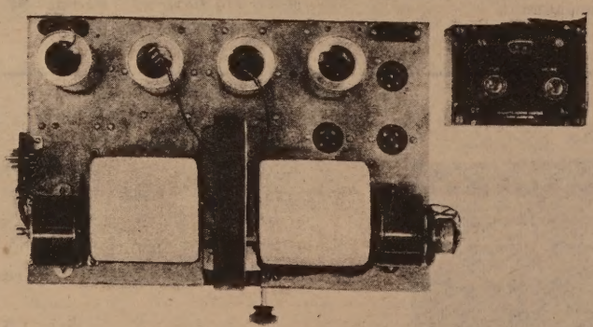
At the top of the page is shown an illustration of the dial with push buttons for automatic control of the Kolster receiver, and to its right the remote control box, a duplicate of the controls on the set. When the "on" button is pushed the green light is illuminated, indicating that the set is functioning. When automatically tuning from one station to the other the red light functions

Some of the Automatic Manufacturers Are

MUCH water has passed over the dam since the days when an up-to-date radio receiver had sometimes as many as eight or ten controls, each one playing an important part in satisfactorily tuning in a set to

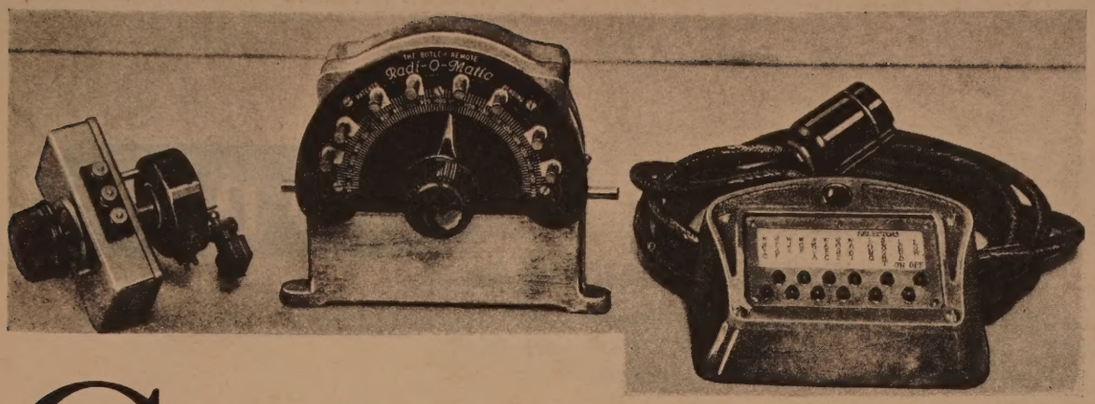
To the left, the Motormatic remote and automatic tuning device. The box at the extreme left houses a motor which turns the condenser shaft. By pressing the buttons on the remote control box, rotation of the shaft may be stopped at prearranged points corresponding to positions of the condenser rotor plates where stations are tuned in





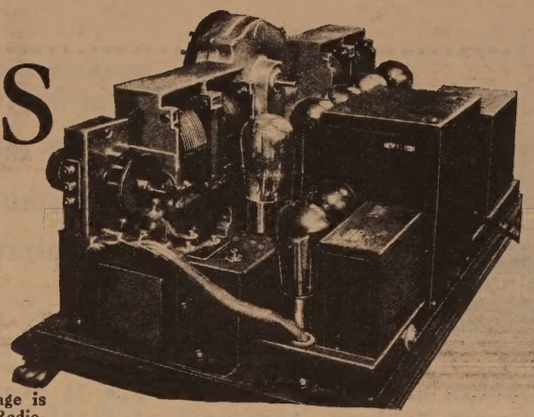
Above, the Sleeper Kineomatic automatic tuning unit applied to a receiver. By turning the knobs on the control box, shown at upper right, small motors attached to the condenser shaft and volume control are made to operate, rotating in ½ degree jumps

To the left, the Zenith receiver with automatic tuning device, and, in the insert, an illustration of the remote control box



Controls

Tuning Devices Which Presenting This Season



At the top of this page is shown the Butler Radiomatic motor with stops on the dial (center) and (right) the remote control box with its push buttons and indicator light. At the extreme left is the volume control line switch motor

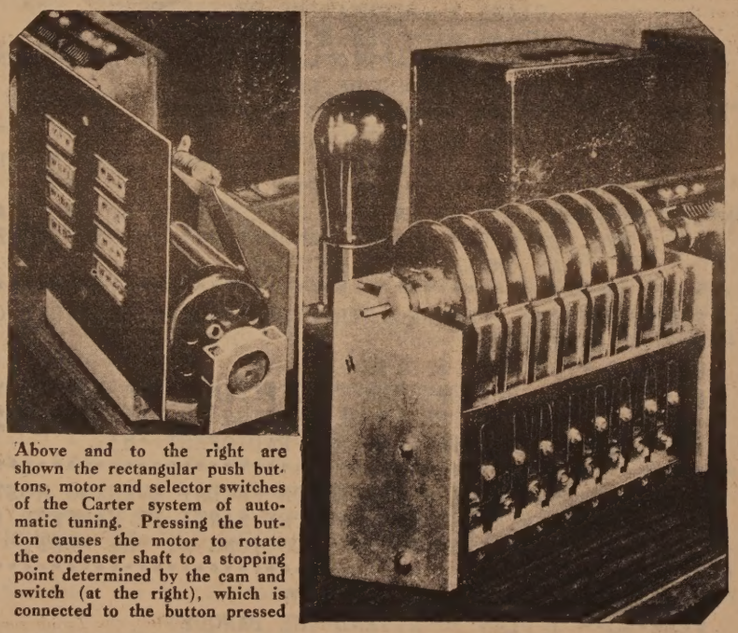
The Butler Radiomatic system of automatic tuning makes use of a special slow-speed motor, having no momentum of its own, so that it stops exactly at the point desired. Separate motors are used for the tuning condensers' unit and for the volume control

a desired program. There were separate controls for tuning each circuit, separate rheostats for each tube, antenna switch taps, volume control, battery switches, jacks and so on.

In the rapid strides which have been made in the direction of simplifying radio receivers, the picture has changed considerably. Today, we usually have one dial for single control tuning and one knob which serves the dual purpose of turning the receiver on or off and regulating volume. Yet, even that doesn't seem to completely fill the bill. In proof whereof we present some of the new automatic and remote controls which are being offered to the public this season.

By their use it is possible, without leaving your armchair or otherwise bothering yourself to get up and walk over to the radio set, to push a button or turn a knob, and presto, the set is turned on, tuned to the desired station and the volume adjusted to the correct amount. In truth, a lazy man's paradise.

In general all of the systems, with few exceptions, depend for operation on the action of a small motor geared down to a very slow speed to turn the condenser shafts or volume controls. These motors can be started or stopped by merely pressing the correct button. Stops are provided which, after the receiver is installed, are permanently set for the favored stations. They will then automatically stop the rotation of the condenser shaft at a point where the signals from a desired station are brought in when its corresponding button is depressed.



Above and to the right are shown the rectangular push buttons, motor and selector switches of the Carter system of automatic tuning. Pressing the button causes the motor to rotate the condenser shaft to a stopping point determined by the cam and switch (at the right), which is connected to the button pressed

club news

THE
ANTIQUE RADIO CLUB OF ILLINOIS
AN AFFILIATE OF
THE ANTIQUE RADIO CLUB OF AMERICA
IN CO-OPERATION WITH
THE INDIANA HISTORICAL RADIO SOCIETY
AND
THE MID-AMERICA ANTIQUE RADIO CLUB
PRESENTS

RADIOFEST '83

AUGUST 13, 1983 at the HOLIDAY INN,
345 RIVER RD, ELGIN, ILL. (Route 31 South exit from the I-90 Northwest Tollway--turn left at first stop light).

THE PROGRAM

I. ALL DAY SWAP-SELL SESSION
II. SEVERAL TECH SESSIONS INCLUDING: " HOW MUCH IS THAT OLD RADIO WORTH?"
III. RADIO CONTEST--CATAGORIES
CLASS I--REGENATIVE RECEIVERS
CLASS II-- TRF RECEIVERS
CLASS III--CRYSTAL SETS--1920 TO PRESENT
CLASS IV--CATHEDRAL SETS
CLASS V--PRE-1920 RECEIVERS
CLASS VI--CONSOLES
CLASS VII--ZENITH RECEIVERS--1922 TO PRESENT
CLASS VIII--ADVERTISING

CONTEST ENTRIES MUST BE IN THE CONTEST ROOM BY 11:00 A.M.

IV. SATURDAY NIGHT: BANQUET AND AWARDS PRESENTATION PLUS AN INTERESTING PROGRAM.

REGISTRATION: PRE-REGISTRATION $2.00--REGISTRATION ON THE DAY OF MEET $3.00
BANQUET TICKETS: $10.50
MOTEL ROOMS: HOLIDAY INN IS OFFERING US A 10% ON ROOMS--CONTACT THEM AT THE ABOVE ADDRESS OR CALL 312-695-5000 AND REQUEST RESERVATIONS FOR RADIOFEST '83.

EARLY BIRDS--ENJOY A RECEPTION FRIDAY EVENING HOSTED BY ARCI STAY OVER SUNDAY AND ATTEND THE SANTA FE HAMFEST (ONE OF THE LARGEST IN THE COUNTRY) DIRECTIONS AT THE MEET.

YES, I PLAN TO ATTEND THE MEET
YES**NO** I PLAN TO ATTEND THE BANQUET
MAKE BANQUET AND PRE-REGISTRATION CHECKS TO: ARCI AND SEND TO:
JOE WILLIS--525 OAKDALE #524--CHICAGO, ILL. 60657
IF POSSIBLE, PLEASE REPLY BY APRIL 30th.

INDIANA HISTORICAL RADIO SOCIETY and ANTIQUE WIRELESS ASSOCIATION

REGIONAL SPRING MEET, SATURDAY APRIL 16, 1983 at AUBURN, INDIANA

at the AUBURN-CORD-DUESENBERG MUSEUM

FRIDAY, APRIL 15: 5:00 PM- Early Registration at the Museum
7:00 PM- "Old Tyme Movie" and/or AWA Show, Museum Mezzanine Banquet Room.

SATURDAY, APRIL 16:

9:00 AM- Registration at the Museum
SWAP MEET in the NORTH PARKING LOT.

9:30 AM- Register items for the OLD EQUIPMENT CONTEST, Jerry Hueber, Chairman.

OLD EQUIPMENT CONTEST CLASSIFICATIONS:
1. Crystal Sets
2. Regenerative Receivers
3. TRF Receivers
4. Superheterodyne Battery Receivers
5. All Other Receivers
6. Horn Speaker Contest, best sounding speaker by popular vote. Conducted by Nelson Preble.

10:00 AM: SALE OF DONATED ITEMS for the IHRS Museum Fund. You are invited to bring surplus parts and sets for a good cause!

10:00 AM: Register items for the afternoon auction. All items must be registered by 12:00 Noon.

10:30 AM: CONTEST JUDGING.

12:00 Noon- Lunch at the Museum "Filling Station".

1:00 PM: AUCTION OF PERSONAL ITEMS. A 10% donation to the Museum Fund is expected. Limit six items per person.

3:45 PM: "The RADIOLA STORY" from the 1980 AWA Radio Conference. A dual slide show comparing the early westinghouse, General Electric and wireless Specialty Radiola Sets. by Ross Smith

6:00 PM: SOCIAL HOUR in the Museum Mezzanine Banquet Room.

7:00 PM: BANQUET and OLD EQUIPMENT CONTEST AWARDS. "BEST OF SHOW" will receive the GREBE TROPHY
Entertainment, to be announced.

PRE-REGISTRATION for the Banquet must be received before April 14, 1983 Banquet tickets are $11.00 each. Make checks payable to I.H.R.S. and mail to Ross Smith, 1133 Strong Ave., Elknart, IN 46514. Make your own Motel reservations at the L & K Motel 800-848-5767 or at the STARLITE MOTEL 219-925-0500, both on SR 8W, Auburn, IN 46706.

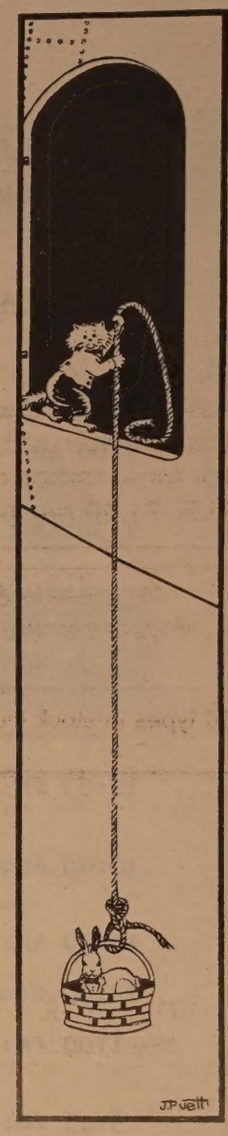
REGISTRATION FEE is $3.00 each at the door (Includes Museum Adm.)

ALL AWA, IHRS MEMBERS, FRIENDS AND VISITORS ARE WELCOME!

Jerry Hueber & Del Barrett, Co-Chairmen
George & Edna Clemans, Arrangements Comm

PUETT ELECTRONICS

P.O. BOX 28572 DALLAS TX 75228



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"A FANTASY FOR CHILDREN AND ADULTS ALIKE"

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This is a limited edition book in that the publisher, a well-known large company in San Antonio TX is no longer in business. Fortunately, about 800 copies of Trigo-Kit were completed before the publisher closed their doors for the last time.

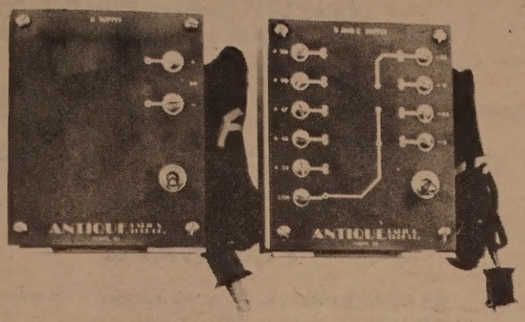
We have been fortunate enough to obtain 300 copies of TRIGO-KIT which we will offer until the supply is gone. There are no plans to publish this book in the future.

We offer discounts to dealers or anyone interested in purchasing six or more copies. We believe that this book will be a "best seller" from book stores to flea markets!

THE 1983 ANTIQUE RADIO CATALOG NO. 21

$1.00 POSTPAID

NEW — POWER SUPPLIES



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From ARS

KENILWORTH, ILLINOIS-- Recently, ARS Electronics announced that it had acquired Supreme Publications.

As many involved in radio and electronics know, Supreme produced the famous line of "Most Often Needed" sevicing manuals since the 1930's. ARS publishes technical books (including the DIRECTORY OF RADIO COLLECTORS AND SUPPLIERS), sells parts and servicing data and provides technical consulting expertise. Even though THE HORN SPEAKER has not experienced any of ARS services, a sincere desire is expressed that ARS offers competent services beyond reproach. Our dealings with ARS Electronics as an advertiser has been very good and the owner, Hartford Beitman, has always kept his word.

"It's a natural fit," says Beitman, who is named president of ARS. "We've added an important source of diagrams and data to our list of products and services ARS can provide," Mr. Beitman continued.

Supreme manuals and service data will continue to be available directly from ARS at $4.00 each. In addition, ARS plans to reintroduce many Supreme editions no longer in print. These will be available in limited reproduced quanities at $20.00 each.

The new ARS catalog will feature the complete Supreme line, including an index to help locate service data quickly. A free copy of the catalog is available from ARS. ARS wants interested readers to send a S.A.S.E. (self addressed stamped envelope) to ARS Electronics, 646 Kenilworth Terrace, Kenilworth, Illinois 60043. Wonder what ARS stands for?

Service

Servicing Majestics

By Jas. P. Smith

WHEN new tubes are placed in the Majestic "70" series they may cause the set to oscillate on the high frequencies; this is natural, as the new Majestic tubes have a slightly lower grid-plate capacity than the set was originally balanced for. If a balancing wrench is handy this can be quickly remedied by backing up about an eighth of a turn on the three balancing condensers located between the R.F. and detector tubes. Even though this usually clears up the trouble it is *best* to use the regular balancing procedure.

When it is desired to have proof that a set is properly balanced, a simple system as outlined here is recommended. A roll of transparent gummed paper tape can be purchased at a music or stationery store, and can be used to make a dummy from a good tube by tearing off a short piece of tape and sticking it around one of the

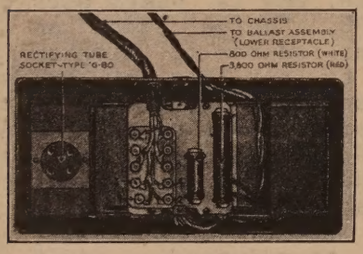
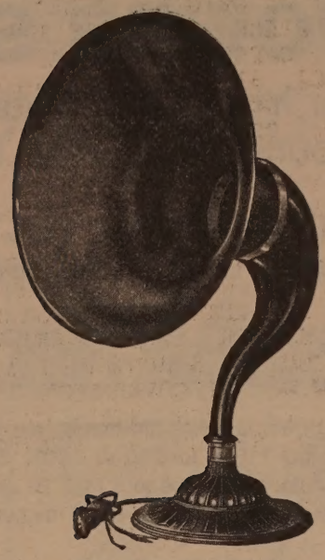


Fig. A
Power distribution plate in Majestic radio sets. Note the off-set position of terminal No. 1.

filament prongs of each of the R.F. tubes as it is being balanced out. This insures that the internal capacity of each tube has been balanced out and removes the hazard of the dummy tube having a different capacity from that of the tube to be used in the set.

In the Majestic "90" series it has been found that an aerial that is excessively long will cause oscillation, and sometimes a set that will not whistle without an aerial will do so with one. The remedy is to shorten the aerial.

The Majestic "52" series came out before the advent of the multi-mu tubes but circuit constants are such that the G-24 tubes can be replaced with the multi-mu G-51's and will show a vast improvement as to noise level and cross-talk. This change improves the set so that it compares favorably with the new model "21" series.



THE MUSIC MASTER

Is a loud speaker of exceptional quality. For use with two stages of A. F. amplification, it is hard to beat. Its tone is mellow, and the price is fair. The home model has a 14-inch horn and sells for $30. General Radio Corporation, 624 Market St., Philadelphia, Pa.

1923

Numbers of Majestic superheterodynes have given trouble because the beat frequency oscillator would either work intermittently or refuse to work at all. It seems that the 150,000 ohm resistor from grid to ground is very important, and that the ones used for quite a while are subject to defects. To determine if the oscillator is working, remove the tube from that socket and note the difference in reception.

The tone of the superheterodyne will be distorted if the antenna coupling condenser is not adjusted correctly. On the "60" series this should be done with the aid of the meter on the front as the ear is ineffective against the automatic volume control. A "60" series volume control will have no effect if the A.V.C. tube will not pass current.

There is a simple method to test the filter pack condensers in the three different types of Majestic powerpacks. Each type can be identified by the number of connections or taps on it. The 9P6 has ten, the 8P6 has eleven, and both the 7P6 and 7BP6 have twelve. We are only interested in connections 1, 2, 3 and 4, Fig. A.

Disconnect the powerpack from the set and then turn it on so that the G-80 tube lights up. If there is a frying and popping in the condensers it shows that one was leaking and that the no-load voltage of the pack has broken it down. If the frying does not occur, then with a screwdriver short from No. 1 to No. 4. This should give a white breakdown flash. If it gives a red arc, it means that one or more condensers are open. After *leaving it on* for a minute or two, turn it off, and about fifteen seconds later test again from No. 1 to No. 4. There should be a white breakdown discharge. If not, it indicates that one of the condensers is shorted or leaking.

In the Majestic "90" series, trouble has been experienced with the .004 detector plate by-pass condenser. In nearly every case where they have broken down it will be noticed that two .002 condensers of like manufacture have been riveted together. In replacing, be sure to use two riveted together of different makes. It seems that they stand up better if that precaution is taken.

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NATIONAL SW-3, FRESHMAN MASTERPIECE, STEWART WARNER, DYMAC, OTHER BATTERY SETS, SPEAKERS, A-B ELIMINATORS, PARTS, TUBES. CLEANING HOUSE. SASE FOR LIST. EDWARD CROSBY K1GWT, #1 THOMPSON STREET, ROCKVILLE, CT 06066

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W. E. 10D HORN, WORKS -- $75. Radiola UZ-1325 horn, not working -- $20. Philmore crystal set, works -- $30. Four 00-A's, good filaments -- $10. Two filaments on top 401-A's, work -- $20. Sterling R-401 tester -- $15. Mohawk battery receiver, 1926, works -- $30. Murdock 1913 varible condenser -- $40. Shipping extra. S.A.S.E. Harrison, 1021 Falcon Drive, Columbia, MO 65201.

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WANTED: SE950, SE143, SE1400 and other SE series sets, type B amp., BC131, BC161, and other BC series, SCR equipment, Leutz, Norden Hauck, any GR parts, VT1, VT2, VT5 tubes. Incomplete sets OK. Also Grebe CR equipment. Ray Garner, Route 1 Box 320, Big Sandy, TN 38221.

RCA VICTROLA CREDENZA 8-30. EDISON OPERA. HMV 202, 203. Western Electric tubes, amps, mixers, consoles, networks, drivers, tweeters, horns, speakers, parts. Tel: (213) 576-2642. David Yo, POB 832, Monterey Park, CA 91754.

WANTED BY ART DECO RADIO DEALER in France, mirrored sets, colour bakelite, chrome or any interesting items, in very good condition only from years 1930 to 1950. Highest prices paid as well as crating and freight. Write with photo to 1900-2000 Gallery-8, Rue Bonaparte, 75006 PARIS-FRANCE

COLLECTOR INTERESTED IN PURCHASE OR TRADE FOR EARLY PARAGON AND ADAMS MORGAN EQUIPMENT AND LITERATURE. ALSO WANT EARLY YEARS WIRELESS AGE, QST, RADIO NEWS. PLEASE CONTACT R. S. RENNE, 1020 IDLEWILD, DIXON, IL 61021 OR (815) 288-4701 AFTER 5 P.M.

BIDDER- ORR AUCTION at Opelika? I have the catalog but still need the prices at the Friday N.T. Session. ITEMS 211 through 400. Ralph Barnett, 3434 E. Oakwood, Decatur, IL 62521

WANTED: SCOTT RADIO LABS Scott Special 1940, Pilot Super Wasp 1927, Canadian Marconi CSR-2 1936, DeForest SW 20-200 M. 1930, Breting 14, 1937, Breting 12 1936, RME-9, RME-69, RCA ACR-175, National FBX, FB7, SW-4 Thrill Box, SW-5 Thrill Box, Sky Rider 5-10, Super Skyrider, Ultra Sky Rider, Sky Buddy, Sky Chief. D'Arcy Brownrigg, Chelsea, Quebec, Canada, J0X 1N0.

WANTED: OPERATING MANUAL OR COPY FOR PHILCO TUBE TESTER, MODEL- 050. MAYDE BEEL, BOX 8, JOHNSTOWN, NEBR. 69214.

WANTED WD-11s TUBES, ALL TYPES, early carbon, horseshoe filament light bulbs, good prices paid, Rick Wilkins, Olden Year Museum, Box 3442, Arlington, TX 76014. Phone (214) 298-5587

WANTED: TWO RF61 INTERMEDIATE FREQUENCY TRANSFORMERS, TWO 10 OHM RHEOSTATS, ONE 30 RHEOSTAT, ONE 400 OHM POTENTIOMETER, ALL MUST BE WIREWOUND AND MOUNT IN A HOLE IN THE PANEL, ALL OF THIS IS FOR A MAGNAFORMER SUPERHET. JOHN RAWLINS, 1920 STEPHENSON DRIVE, MESQUITE, TX 75149.

BACK ISSUE

INDEX

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	September 1979					
79-07-A	WORLD'S FIRST MOVIE STAR	R. BRAGG.	PROGRAM	ACTON	EDISO	1902
79-07-A	CLUB NEWS- ARCA AWA VRPS.	THS.....	CLLUB..	N-VA.	IHRS.	1979
79-07-A	CLINIC- PATCHING	STHR.....	SERVICE	WOOD	FINIS	1979
79-07-A	BOOK- RADIO ENTERS.. HOME	RCA.....	RADIO..	BOOK	RCA..	1922.
79-07-A	500 YEAR STROM.....	F COOPER.	WEATHER	RADIO	KUIN	1979
79-07-A	MUSEUM NEWS- ENGLISH.....	THS.....	MUSEUM.	TEM..	NEWPO	1979
79-07-A	METER TO KILOCYCLE CONV..	THS	RADIO..	CHART	METER	1979
79-07-A	RADIO STARS	NONE.....	PROGRAM	BRINK	LANIN	1931
	October 1979					
79-08-A	PHILCO STORY.....	PHILCO...	RADIO..	HISTO	COMPA	1972
79-08-A	CLUB NEWS- ARCA MEET 79..	THS	CLUB	CONTE	PIXS.	1979
79-08-A	1948 TELEVISOR PARADE....	RC 1948..	TELEVIS	EMERS	DUMON	1948
79-08-A	CLINIC- NOISY DET. TUBES.	RC 1929..	SERVICE	227..	TUBES	1929.
79-08-A	GENE AUTRY PICTURE.....	NONE.....	PROGRAM	MELCO	RANCH	1430.
	November 1979					
79-09-A	HOUCK.....	L HANCOCK	RADIO..	ARMST	NEWA.	1979.
79-09-A	ON THE AIR- SPERDVAC.....	SPERDVAC.	CLUB ..	MIX..	BRADL	1979
79-09-A	RADIO SETS.....	THS.....	RADIO..	ARMST	MURAD	1923C
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79-09-A	CLUB NEWS- VRPS	THS	CLUB ..	CONTE	CONVE	1979
79-09-A	GRAPHOPHONES.....	THS.....	PHONOGR	AZ .	AU...	1902
	December 1979					
79-10-A	ARMSTRONG.....	F KREUZER	RADIO..	LIFE.	DEATH	1979
79-10-A	REFURBISH RADIO FRONTS	FRIEDRICH	SERVICE	VENEE	WARPE	1979.
79-10-A	CLUB NEWS- HOUS. ANK.	THS	CLUB...	HARC.	BIRTH	1979.

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